

ORALLY ACTIVE PESTICIDAL BIOPEPTIDES

ABSTRACT OF THE DISCLOSURE

5 The present invention provides compositions and methods for orally active
pesticidal polypeptides. Compositions include novel nucleotide sequences encoding
pesticidal polypeptides, and biologically active variants thereof. Further provided are
methods for modulating the pesticide resistance of plants using the sequences disclosed
herein. One method comprises stably transforming into the genome of a plant cell a
10 nucleotide sequence of the present invention operably linked to a heterologous promoter
and regenerating a stably transformed plant that expresses the nucleotide sequence. An
additional method comprises incorporating a nucleotide sequence of the present
invention operably linked to a heterologous promoter into a microorganism and applying
said microorganism to the environment of a plant.